

**AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES MADE,  
AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS**

1. (Withdrawn) A method for increasing the adsorption of gas into water which is gassed at least in a gassing chamber, characterized in that the gas/water mixture, after leaving the gassing chamber, is guided through at least one gassing device located downstream of the gassing chamber, in which the gas/water mixture is being thoroughly mixed.
2. (Withdrawn) The method according to claim 1, characterized in that a carbonator chamber (48) and an inline carbonator (26) are utilized for the gassing with CO<sub>2</sub>.
3. (Withdrawn) The method according to claim 1, characterized in that the gas/water mixture is guided across granulate inside the inline carbonator.
4. (Withdrawn) The method according to claim 3, characterized in that the granulate is filled into a hollow body surrounding the inline carbonator in the form of flowable bulk material.
5. (Withdrawn) The method according to claim 1, characterized in that an additional amount of gas is introduced into the gas/water mixture upon leaving the gassing chamber (48) and before entry into the inline carbonator (26).
6. (Withdrawn) The method according to claim 2, characterized in that in the inline carbonator (26) a pressure is maintained suitable for drawing a finely beaded gas/water mixture from a tap.

7. (Withdrawn) The method according to claim 6, characterized in that the gas/water mixture undergoes cooling prior to entry into the inline carbonator (26).
8. (Withdrawn) The method according to claim 2 characterized in that the liquid impregnated in the inline carbonator (26) is tapped from certain tapping points (32).
9. (Withdrawn) The method according to claim 2 characterized in that the carbonator chamber (48) and the inline carbonator are utilized for industrial filling of refreshment beverages.
10. (Withdrawn) The method according to claim 9, characterized in that the inline carbonator (26) is integrated into a cooler.
11. (Withdrawn) The method according to claim 2, characterized in that the carbonator chamber (48) has at least one location for inputting liquid into the carbonator chamber (48).
12. (Withdrawn) The method according to claim 1, characterized in that there is at least one input opening at the inline carbonator (26) for inputting liquid into the inline carbonator.
13. (Withdrawn) The method according to claim 2, characterized in that inputting the liquid and the gas into the inline carbonator (26) is carried out in mutual dependence on the pressure of each the gas and the liquid.
14. (Withdrawn) The method according to claim 1, characterized in that a tapping system including a gassing chamber can be retrofitted with an inline carbonator (26).

15. (Withdrawn) The method according to claim 14, characterized in that carbonation in the inline carbonator takes place only upon tapping of carbonized liquids.
16. (Withdrawn) The method according to claim 4, characterized in that the hollow body of the inline carbonator (26) comprises three interconnected layers.
17. (Withdrawn) The method according to claim 16, characterized in that the innermost layer of the hollow body of the inline carbonator (26) is from plastic and covered by a middle layer from aluminum which is provided with an outer layer of plastic.
18. (Withdrawn) The method according to claim 2, characterized in that through integration of an inline carbonator (26), formation of foam is suppressed when tapping soft drinks.
19. (Withdrawn) The method according to claim 1, characterized in that prior to introducing carbonation in the carbonator chamber (48), the pressure of the liquid entering the carbonator chamber (48) is kept constant by means of a pressure elevator pump.
20. (Withdrawn) The method according to claim 19, characterized in that the carbonator chamber (48) and the recirculation carbonator (73) are combined into a post-mix system.
21. (Withdrawn) The method according to claim 19, characterized in that in one recirculation carbonator (73) two inline carbonators (26) are mounted parallel in a circular line.

22. (Withdrawn) The method according to claim 1 ~~to 10~~, characterized in that a post-mix system for refreshment beverages is provided with an inline carbonator (26) in an output line (51) of a shock carbonator.
23. (Withdrawn) The method according to claim 21, characterized in that two inline carbonators (26) are mounted parallel to each other in an output line (51) of a shock carbonator.
24. (Withdrawn) The method according to claim 23, characterized in that in a shock carbonator (80) the gas/water mixture under pressure from the carbonator chamber (48) is flowing through the inline carbonator (26) received within the carbonator chamber (56) directly following the cooling system.
25. (Withdrawn) The method according to claim 24, characterized in that the gas/water mixture under pressure from the carbonator chamber (48) is passing through two parallel mounted inline carbonators (26) received inside the water basin (56).
26. (Withdrawn) The method according to claim 25, characterized in that each of the at least two inline carbonators (26) through which the gas/water mixture flows are provided with a separate line for the gas/ water mixture under pressure from the carbonator chamber (48).
27. (Withdrawn) The method according to claim 20, characterized in that in a recirculation carbonator (73), the inline carbonator (26) downstream of the carbonator chamber (48) is integrated into the circular line within the water basin (56).
28. (Withdrawn) The method according to claim 27, characterized in that in a recirculation carbonator (73) the gas/water mixture under pressure from the

carbonator chamber (48) is passing through two inline carbonators (26) mounted parallel to each other within the water basin (56).

29.-31.(Cancelled)

32. (Withdrawn) The device according 29, characterized in that the carbonator chamber (48) is disposed within a recirculation carbonator (73).

33.-34.(Cancelled)

35. (Withdrawn) The device according to claim 29, characterized in that the inline carbonators (26) interior of a housing which houses the carbonator chamber (48) and the inline carbonator (26).

36. (Cancelled)

37. (Withdrawn) The device according to claim 29, characterized in that in a recirculation carbonator (3) the inline carbonator (26) is disposed in a branch of a circulation line, which is under elevated pressure generated by a displacement pump (53) as compared to the circulation line.

38. (Withdrawn) The device according to claim 33, characterized in that in a shock carbonator (80) the inline carbonator (26) is provided with an exit line (29) of the carbonator chamber (48) connected to tapping points.

39. (Withdrawn) The device according to claim 38, characterized in that the inline carbonator (26) comprises a granulate filled hollow body whose opposite openings are each closed by means of a flange (63) and provided with a bore (66) which each extends in the direction of an inner space that is surrounded by a hollow body and wherein at a side facing away from the inner space is

surrounded with cylindrical shaped slide-on surfaces (64, 65), each of the flange (66) facing inner slide-on surface (63) has a larger diameter as compared to the outer slide-on surface facing away from the flange (63).

40. (Withdrawn) A method for carrying out an additional post carbonation or impregnation by means of one or more hollow body inline impregnator or carbonator systems filled with granulate (1) (2) (7) (13) and to provide tapping valves or (faucets) for the so post-impregnated liquids which may be cooled, and for producing and tapping refreshment beverages via at least one hollow body inline impregnation system filled preferably with granulate (10 92) (7) (13) and via the hollow body Inline carbonators (1) (2) (7) (13) supply impregnated liquids to the tap or tapping faucets.
41. (Withdrawn) The method according to claim 40 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that already impregnated liquids can be post-impregnated or post-carbonated through the hollow body inline impregnation system (1) (2) (7) (13) without supplying additional gas or liquid.
42. (Withdrawn) The method according to claim 40 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that several hollow body inline impregnation systems can be in operation simultaneously.
43. (Withdrawn) The method according to claim 42 for a hollow body inline impregnation systems (1) (2) (7) (13) characterized by using also refrigerated liquids.
44. (Withdrawn) The method according to claim 43 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that one or more hollow body inline impregnator systems supply refrigerated or non-refrigerated

- impregnated liquids to at least one tap for producing post-carbonated or impregnated liquids.
45. (Withdrawn) The method according to claim 40 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that impregnation is carried out independently by means of the hollow body inline impregnation system (1) (2) (7) (13) under addition of refrigerated and non-refrigerated gases and liquids.
  46. (Withdrawn) The method according to claim 45 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that the system can be of different construction and assembly.
  47. (Withdrawn) The method according to claim 40 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that one or more hollow body inline impregnation systems (1) (2) (7) (13) can be used for industrial filling of refreshment beverages.
  48. (Withdrawn) The method according to claim 47 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that the impregnated or carbonated liquids can be drawn from the tap with fine beads.
  49. (Withdrawn) The method according to claim 40 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that hollow body inline impregnation system (1) (2) (7) (13) can be utilized integrated directly into a refrigeration machine of any type.
  50. (Withdrawn) The method according to claim 49 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that at least one liquid supply is provided.

51. (Withdrawn) The method according to claim 50 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that at least one liquid and gas supply is provided for the hollow body inline impregnation system (1) (2) (7) (13).
52. (Withdrawn) The method according to claim 40 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that the existing impregnation or carbonator system can be retrofitted or added on to with at least one hollow body inline impregnation system (1) (2) (7) (13).
53. (Withdrawn) The method according to claim 40 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that carbonating or impregnating takes place preferably only when tapping from the tap or taps and thus carbonation or impregnation takes place in a continuous operation.
54. (Withdrawn) The method according to claim 40 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that at least one liquid supply line connector and at least one liquid exit line for the refrigerated or non-refrigerated liquids is provided, wherein the hollow body inline impregnator preferably is made with three-layers, with an inner layer of plastic, preferably polyethylene, an intermediate layer from aluminum and the third layer preferably from plastic or other suitable materials.
55. (Withdrawn) The method according to claim 54 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that the formation of foam is suppressed when tapping the soft drinks from the tap or taps.
56. (Withdrawn) The method according to claim 55 for a hollow body inline impregnation system (1) (2) (7) (13) characterized in that prior to impregnation



or carbonation, the liquid pressure is preferably kept constant by using at least one pressure elevating pump.

57. (Currently amended) An apparatus for producing gasified fluid comprising:
- at least one carbonator vessel as a ~~first~~ gasifier for producing a mixture of gas and fluid ;
  - an inline carbonator as a ~~second-gasifier~~ post-impregnator arranged downstream of the ~~first~~ gasifier, wherein the inline carbonator is filled with a granulate providing an increased surface area such that the mixture of gas and fluid flowing from the ~~first~~ gasifier into the inline carbonator becomes intensified with gas that has been taken up in the inline carbonator so the gasified fluid is suitable for tapping a finely bubbled mixture with an increased number of bubbles, wherein pressure means are provided relative to the gas and the fluid in both the ~~first and the second~~ carbonator and the post-impregnator to maintain a mutual pressure of the gas and the fluid in ~~each both the carbonator and the post-impregnator~~; wherein the ~~second carbonator~~ post-impregnator is a flow-through impregnator is provided with an input and an output line and a tap, and wherein the post-impregnator is constructed to operate in one and the other direction, the input then being the output.
58. (Currently amended) The apparatus of claim 66 57, wherein, the ~~first~~ gasifier is arranged as a carbonator vessel which is arranged within a circuit carbonator.
59. (Currently amended) The apparatus of claim 66 57, wherein the carbonator vessel is arranged within a batch carbonator.
60. (Currently amended) The apparatus of claim 66 57, wherein the ~~second gasifier~~ post-impregnator is arranged outside a housing, said housing constructed for accommodating the carbonator and a cooling system for the carbonator.

61. (Currently amended) The apparatus of claim ~~66~~ 57, wherein a cooling system is provided between the carbonator vessel and the inline carbonator for flow-through of the pressurized mixture of fluid and gas.
62. (Currently amended) The apparatus of claim ~~66~~ 57, wherein the inline carbonator is arranged in a circuit carbonator in a branch of the circuit line which is under pressure which is generated by a displacement pump and is increased over the remaining circuit line.
63. (Currently amended) The apparatus of claim ~~66~~ 57, wherein the inline carbonator is a hollow body enclosing an interior space filled with granulate and with opposing ends, each sealed by a flange through which a bore extends in the direction towards the interior space, wherein each end of the hollow body is encompassed on a side facing away from the interior space by tubular slide-on surfaces, of which an inner slide-on surface facing the flange has a larger cross section than an outer slide-on surface facing away from the flange.